Exploring the Extreme			
2006 Science			
Content Standards			
Montana Science			
Grades K-4			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	MT	SCI.K-4.1.1.a	A proficient student will: develop the abilities necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): (a) asking questions about objects, events, and organisms in the environment
Finding the Center of Gravity Using Rulers	MT	SCI.K-4.1.1.b	A proficient student will: develop the abilities necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): planning and conducting simple investigations
Finding the Center of Gravity Using Rulers	MT	SCI.K-4.1.2	A proficient student will: select and use appropriate tools including technology to make measurements (including metric units) and represent results of basic scientific investigations
Finding the Center of Gravity Using Rulers	MT	SCI.K-4.1.4	A proficient student will: use models that illustrate simple concepts and compare those models to the actual phenomenon
Finding the Center of Gravity Using Plumb Lines	MT	SCI.K-4.1.1.a	A proficient student will: develop the abilities necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): (a) asking questions about objects, events, and organisms in the environment
Finding the Center of Gravity Using Plumb Lines	MT	SCI.K-4.1.1.b	A proficient student will: develop the abilities necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): planning and conducting simple investigations
Finding the Center of Gravity Using Plumb Lines	MT	SCI.K-4.1.3	A proficient student will: use data to describe and communicate the results of scientific investigations
Finding the Center of Gravity Using Plumb Lines	MT	SCI.K-4.1.4	A proficient student will: use models that illustrate simple concepts and compare those models to the actual phenomenon
Changing the Center of Gravity Using Moment Arms	MT	SCI.K-4.1.1.a	A proficient student will: develop the abilities necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): (a) asking questions about objects, events, and organisms in the environment

Changing the Center of Gravity Using Moment Arms	MT	SCI.K-4.1.1.b	A proficient student will: develop the abilities necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): planning and conducting simple investigations
Changing the Center of Gravity Using Moment Arms	MT	SCI.K-4.1.2	A proficient student will: select and use appropriate tools including technology to make measurements (including metric units) and represent results of basic scientific investigations
Changing the Center of Gravity Using Moment Arms	MT	SCI.K-4.1.4	A proficient student will: use models that illustrate simple concepts and compare those models to the actual phenomenon
Exploring the Extreme			
2006 Science			
Content Standards			
Montana Science			
Grades 5-8			
Activity/Lesson	**State**	**Standards**	
Vectoring	MT	SCI.5-8.1.1	identify a question, determine relevant variables and a control, formulate a testable hypothesis, plan and predict the outcome of an investigation, safely conduct scientific investigation, and compare and analyze data
Vectoring	MT	SCI.5-8.1.2	select and use appropriate tools including technology to make measurements (in metric units), gather, process and analyze data from scientific investigations
Vectoring	MT	SCI.5-8.1.3	review, communicate and defend results of investigations, including considering alternative explanations
Center of Gravity, Pitch, Yaw	MT	SCI.5-8.1.2	select and use appropriate tools including technology to make measurements (in metric units), gather, process and analyze data from scientific investigations